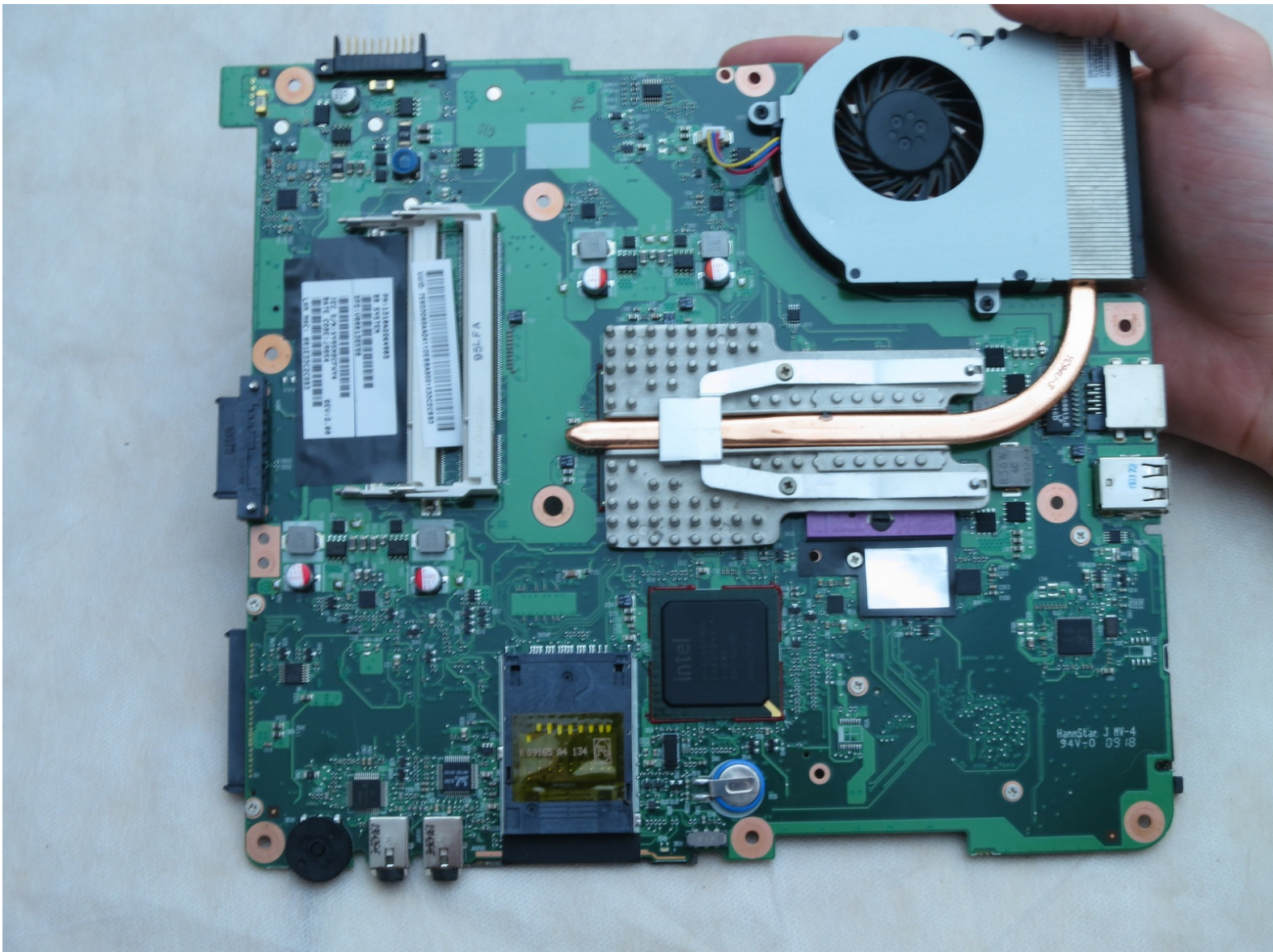




# Toshiba Satellite L305-S5946 Cooling Fan Replacement

Replace the cooling fan in your Toshiba Satellite L305-S5946.

Written By: Michael Erberich



## INTRODUCTION

Use this guide to replace the cooling fan in your Toshiba Satellite L305-S5946 if you notice your current part is not functioning properly, which may be indicated by the computer shutting down unexpectedly.

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### TOOLS:

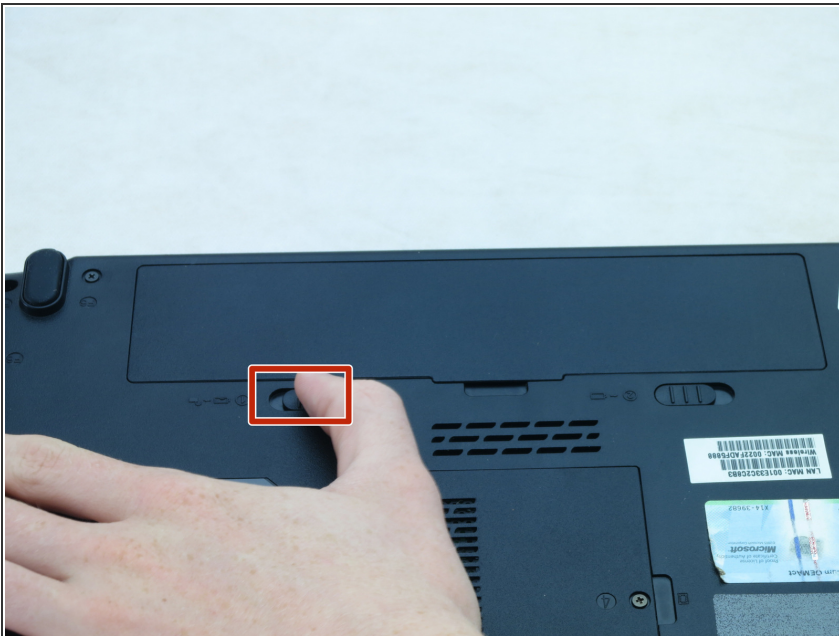
- [iFixit Opening Tools](#) (1)
  - [Phillips #1 Screwdriver](#) (1)
  - [Phillips #00 Screwdriver](#) (1)
-

## Step 1 — Battery



- Turn the laptop upside-down.
- Position the laptop so that the display hinges are facing away from you.

## Step 2



- Slide the left battery bay latch to the left.



## Step 3



- Slide the right battery bay latch to the right and hold.
- While holding onto the latch, use a plastic opening tool to lift and remove the battery bay cover.
- Remove the battery.

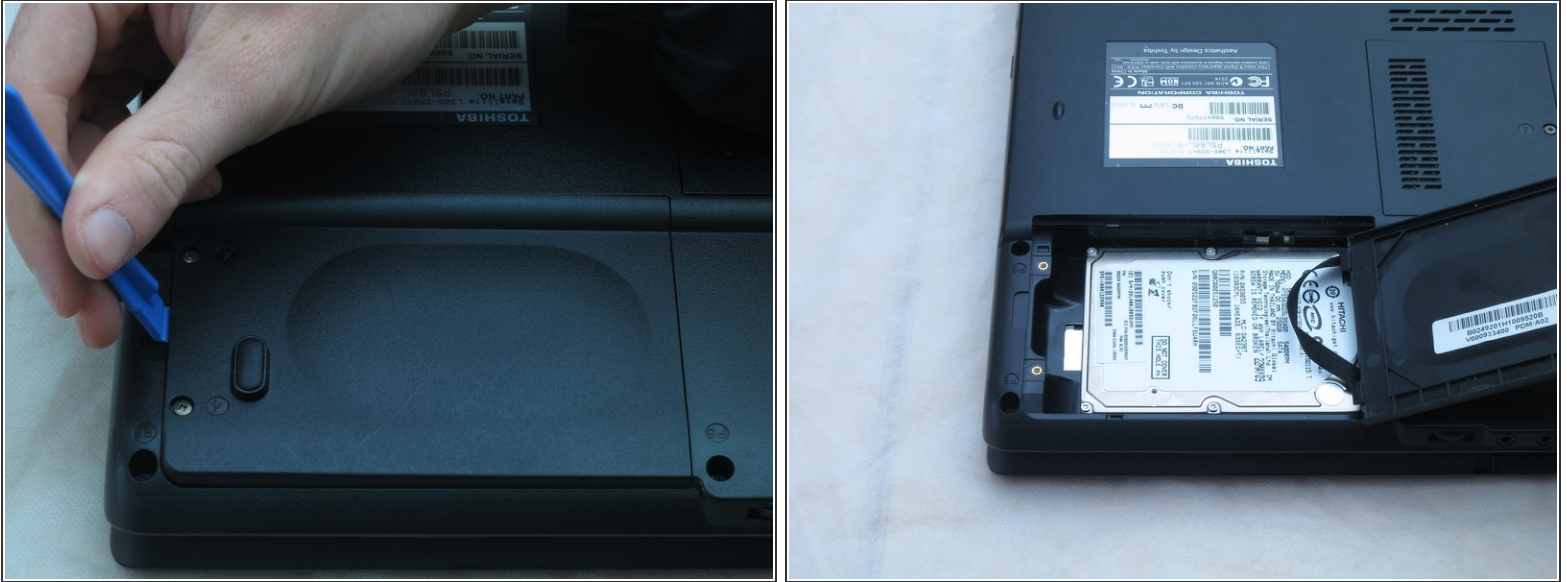
## Step 4 — Hard Drive



- Use a Phillips #1 screwdriver to loosen the two screws on the bottom left-hand side of the hard drive cover.
- Turn each screw until you hear a click.
- ⓘ These are captive panel screws and remain with the cover.



## Step 5



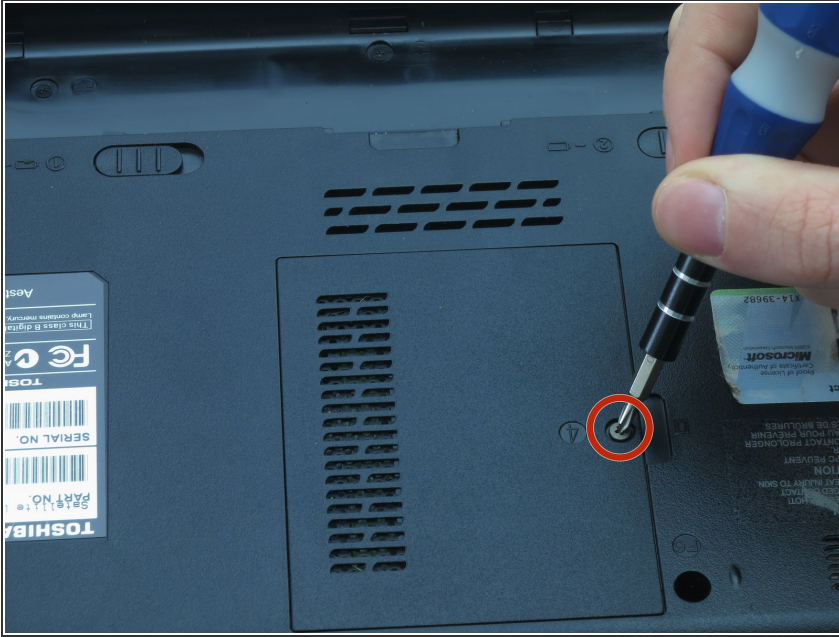
- Lift the hard drive cover using a non-marring plastic opening tool
- ❗ This will expose the hard drive.

## Step 6



- Slide the hard drive to the left using your fingers.
- Insert a plastic opening tool under the right side of the hard drive.
- Carefully lift and remove the hard drive.

## Step 7 — RAM



- Use a Phillips #1 screwdriver to turn the screw on the RAM cover.
- Turn the screw until you hear a click
- ⓘ This is a captive panel screw and remains with the cover.

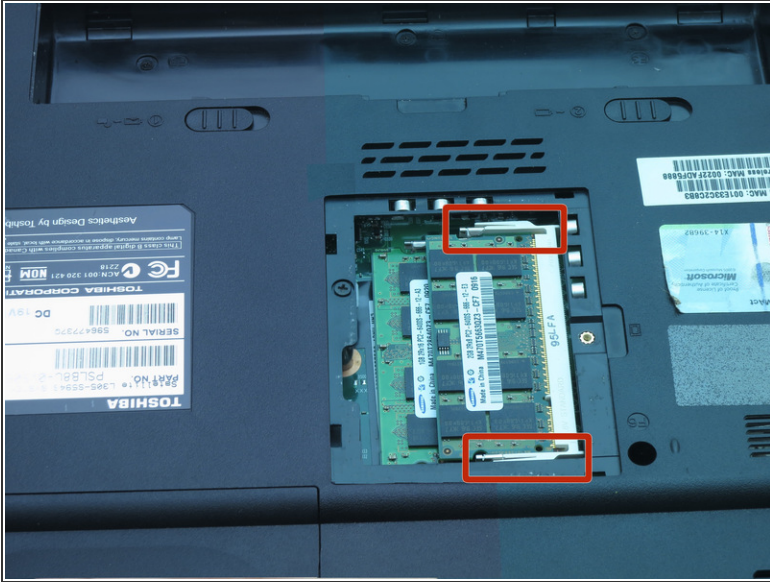
## Step 8



- Insert the plastic opening tool into the indent and lift to remove the RAM cover.
- ⓘ This is a captive panel screw and remains with the cover.



## Step 9



- Use your fingernails to push the white and silver retaining clips away from each side of the RAM card.
- ⓘ The RAM card should pop up at an angle.

## Step 10



- Use your fingers to gently pull the RAM card away from the computer.
- Repeat step 9 to remove the other RAM card that may be installed.

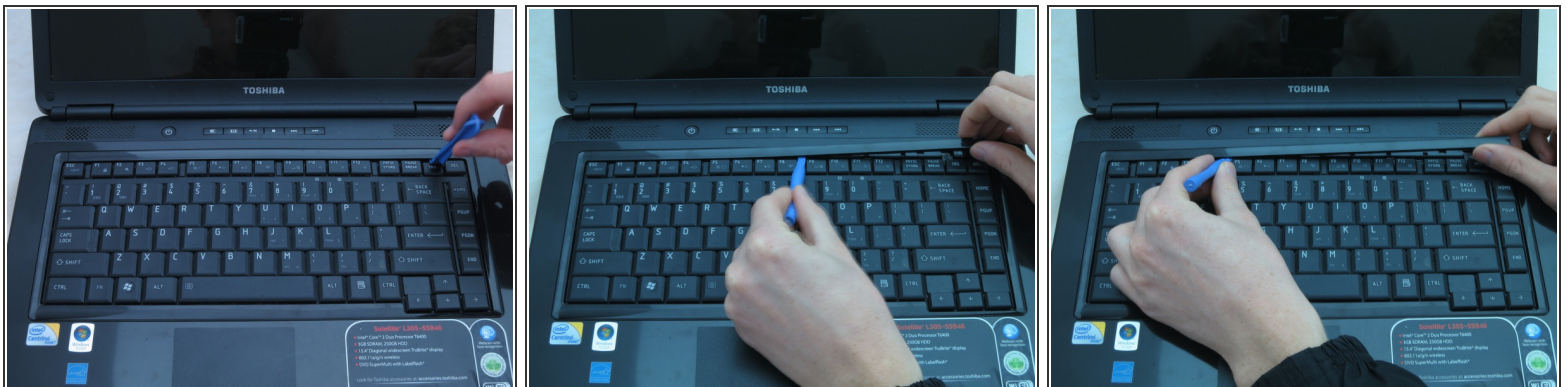


## Step 11 — Keyboard



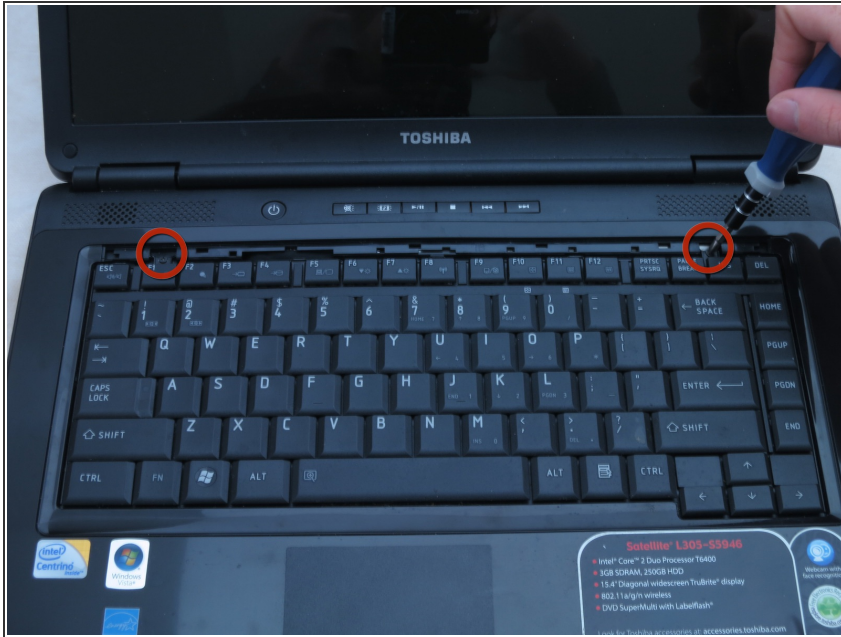
- Turn the laptop right-side up.
- Lift open the laptop so that the screen faces you.

## Step 12



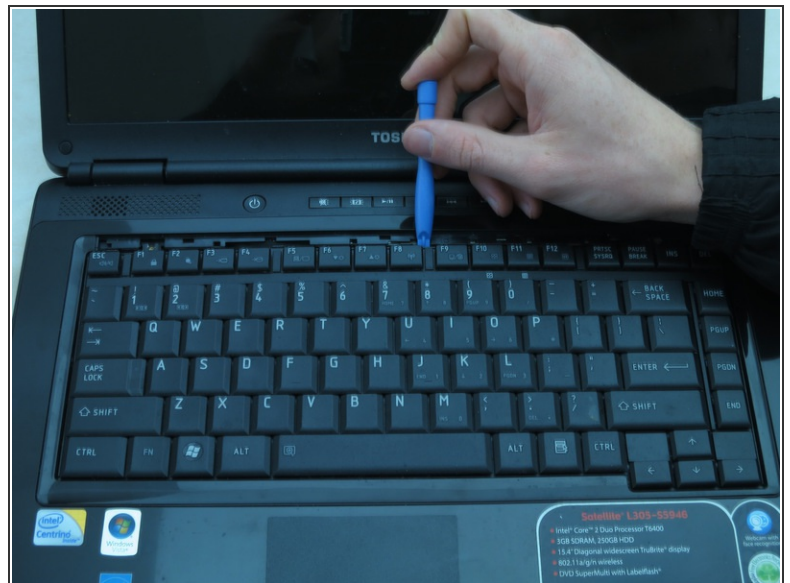
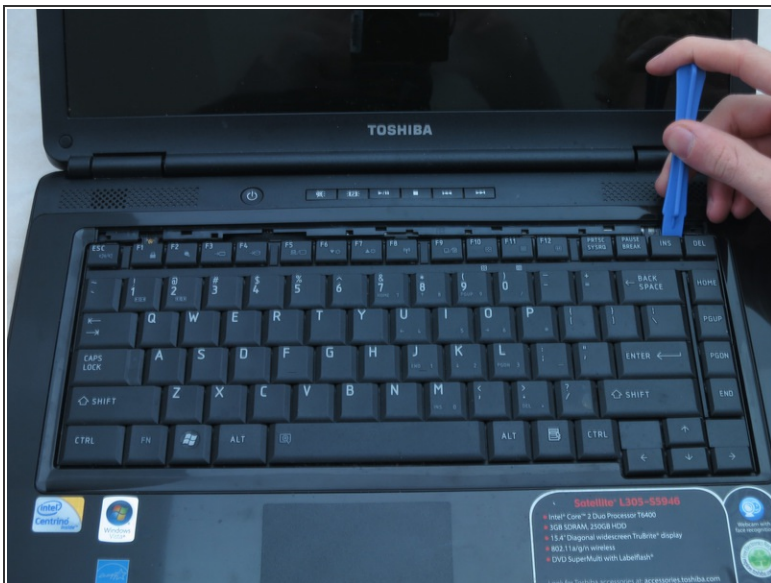
- Remove the strip of plastic at the right furthest edge of the keyboard using a plastic opening tool.
- Insert the plastic opening tool at either end of the strip. Lift upwards and proceed to the other end while repeating this lifting process every one to two inches.

## Step 13



- Use a Philips #00 screwdriver to loosen and remove the two 3-mm screws at the top edge of the keyboard.
- ⓘ These are not captive panel screws and, once loosened, will be free to move about the assembly.
- ⚠ Be careful not to allow either fastener into the CPU fan and duct (not shown).

## Step 14




- Use a plastic opening tool to pry the top of the keyboard loose from its casing.



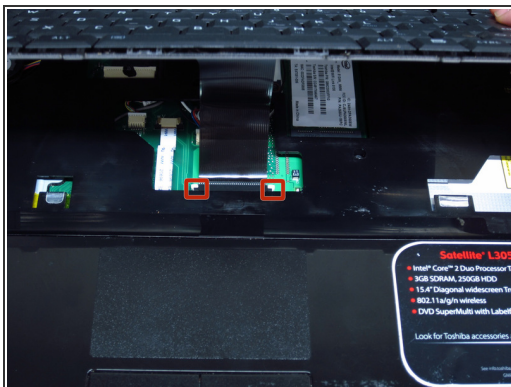
## Step 15



- Gently grasp the top of the keyboard. Pull it up and toward the screen.

 Avoid pulling hard and damaging the black ribbon cable under the keyboard.

## Step 16



- Gently push the two tabs locking the black ribbon cable.
- Slide the keyboard toward the screen to remove the black ribbon cable from the motherboard.
- You may now safely separate the keyboard from the laptop.

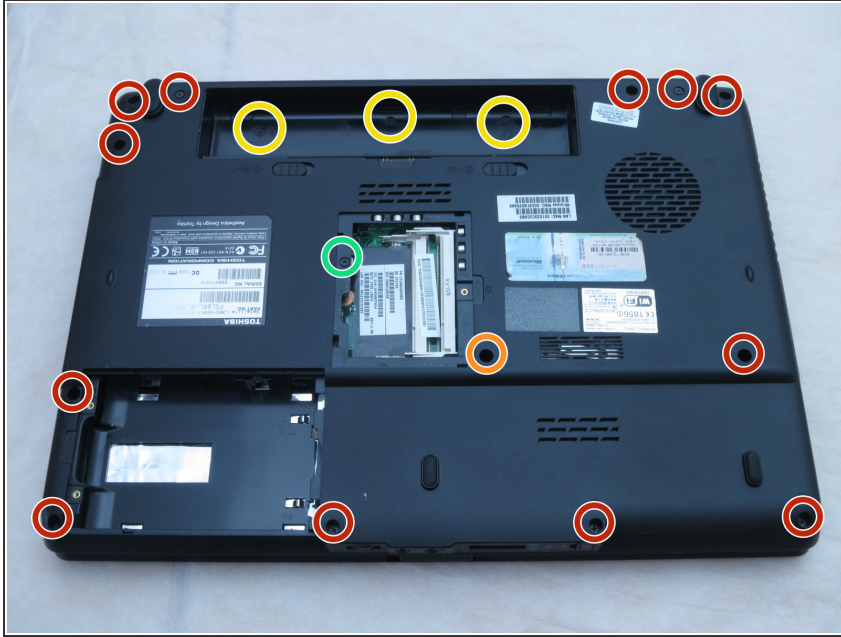


## Step 17 — Base Housing



- Turn the laptop upside-down with its hinges facing away from you.

## Step 18



- Use a Phillips #1 screwdriver to remove the twelve 6-mm screws that border the bottom of the laptop.
- ⓘ Start with the three screws on the top right corner and work clockwise. This will minimize the chances missing some of the screws.
- Use a Phillips #1 screwdriver to remove a 6-mm screw that is located in the lower middle, as shown.
- Use a Phillips #1 screwdriver to remove the three 3-mm screws located in the battery bay.
- Use a Phillips #1 screwdriver to remove the one 4-mm screw located near the RAM.

## Step 19



- Turn the laptop right-side up.
- Flip open the laptop so that the screen faces you.

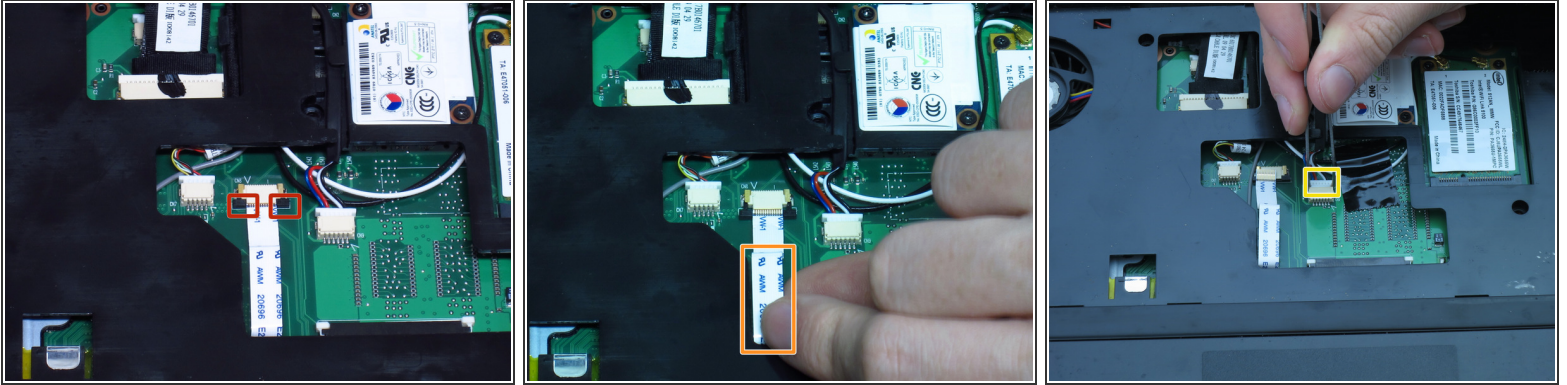
## Step 20



- Use a Phillips #1 screwdriver to remove the five 6-mm screws in the keyboard slot.
- ⓘ These are not captive panel screws and, once loosened, will be free to move about the assembly.
- ⚠ Be careful not to allow loosened fasteners into the CPU fan and duct (located in the upper left).



## Step 21



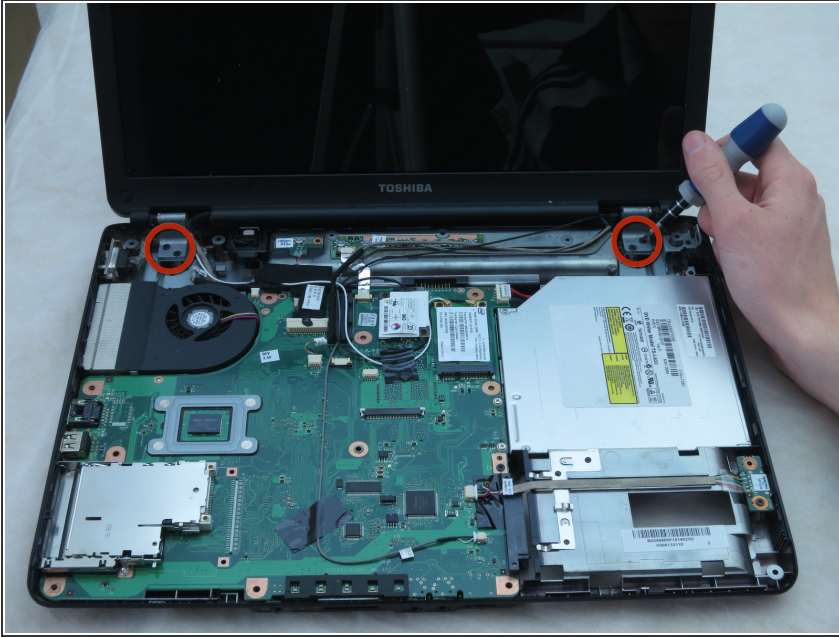
- Gently pull on the two black tabs locking the white ribbon cable in place.
- Pull the white ribbon cable towards you to remove it.
- Use tweezers to remove the connector that has the blue, red, black, and white wires.

## Step 22



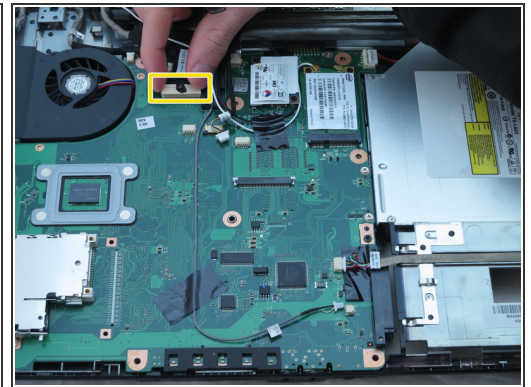
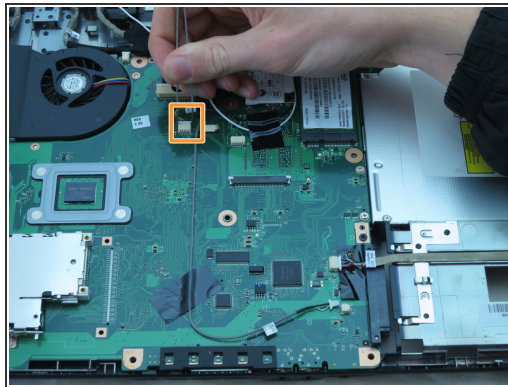
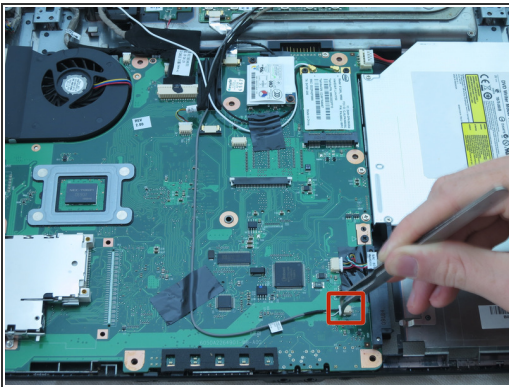
- Use a plastic opening tool to pry the laptop's upper casing off of its lower casing. Move the opening tool around the sides of the case to help separate them.

## Step 23 — Motherboard



- Use a Phillips #1 screwdriver to remove the four 6-mm screws from the two hinge pads that secure the display assembly to the lower laptop section.

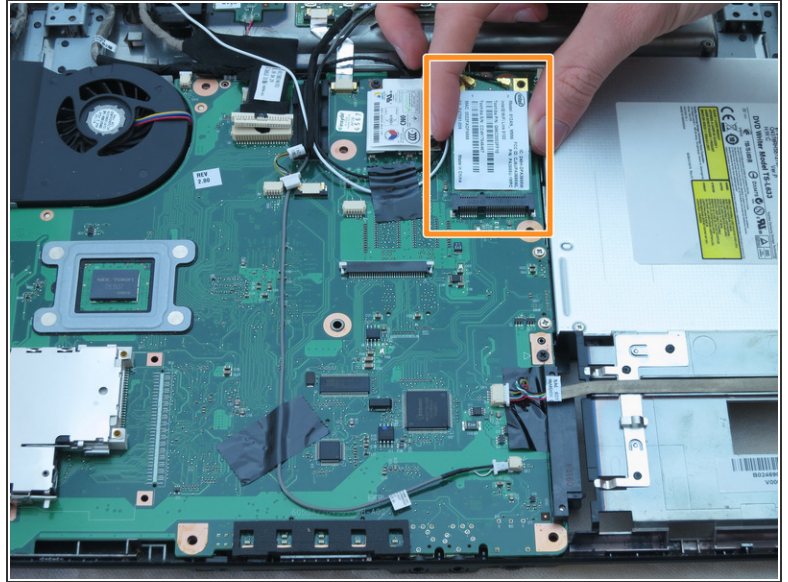
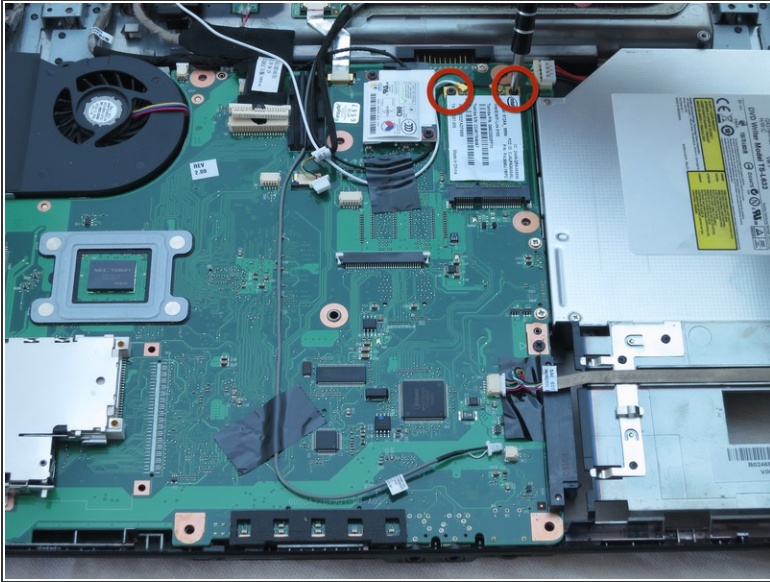
## Step 24



- Use tweezers to remove the following two connectors:
  - One of the connectors has one black and one white wire.
  - The other connector has black, green, red, yellow, and white wires.
- Use your fingers to remove the following connector:
  - The connector is large and is located at the top right corner of the motherboard, as shown.



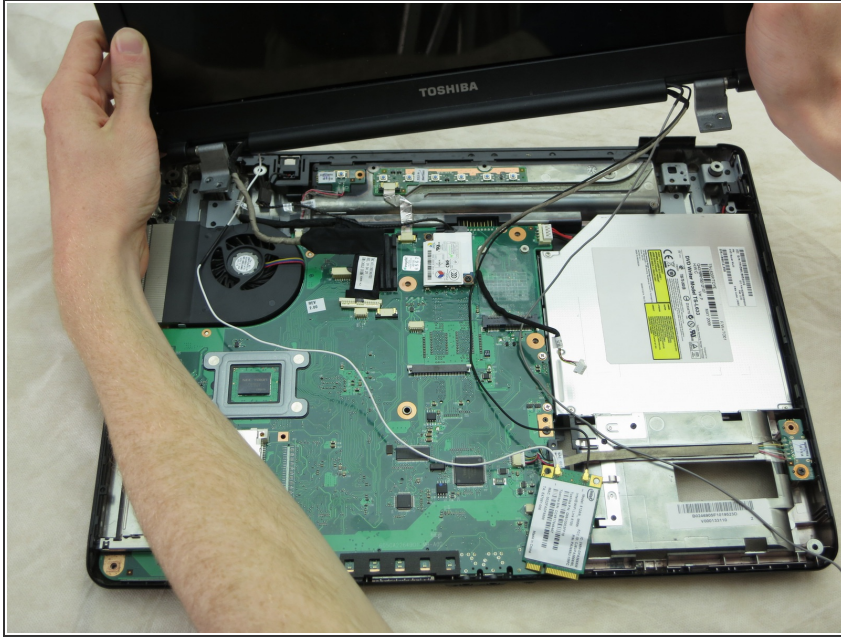
## Step 25



- Using the Phillips #1 or Phillips #00 screwdriver, remove the two 3-mm screws from the card with black and white wires coming off of it.
- ⓘ These are not captive panel screws and once loosened will be free to move about the assembly.
- ⚠ Be careful not to allow either fastener into the CPU fan and duct (located in the upper left).
- ⓘ The card should pop up.
- Gently remove the card with your fingers.

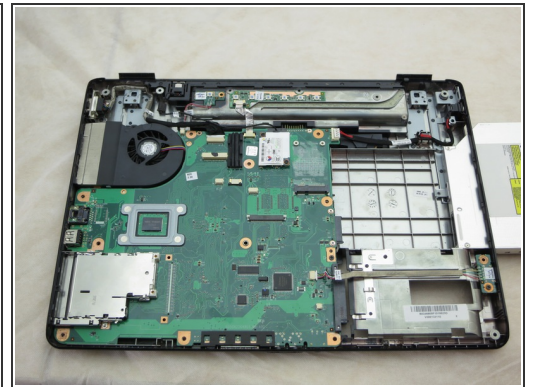
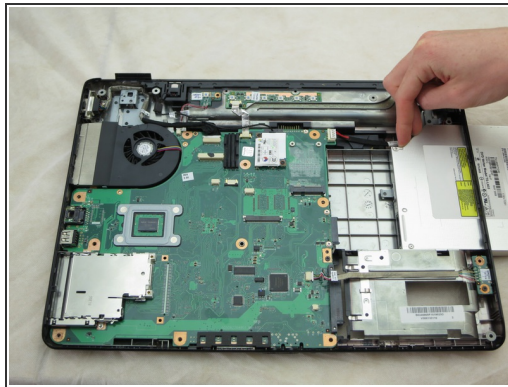
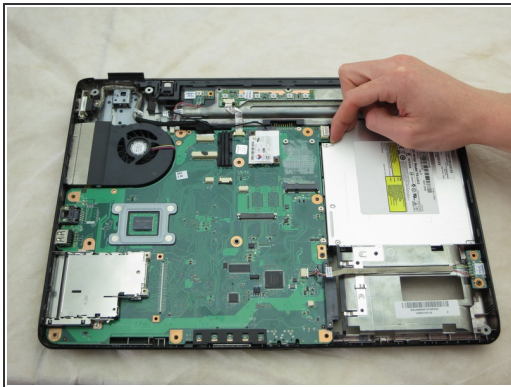


## Step 26



- Remove the display assembly and put it aside.

## Step 27



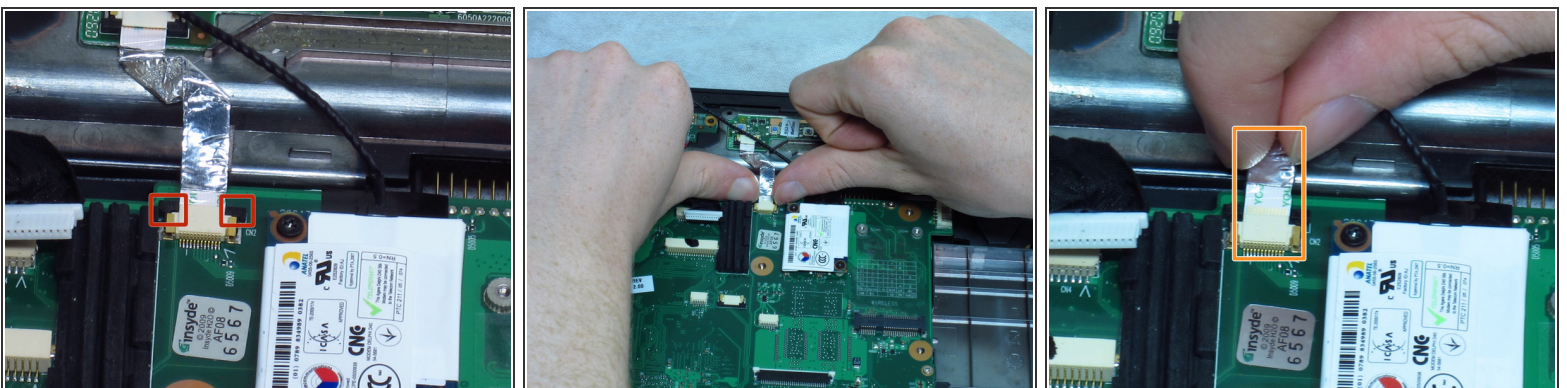
- Slide the DVD out of the opening on the right using your fingers, as shown.

## Step 28



- Remove the power jack connector.
- Remove the connector that has one red wire and one black wire.
  - ⓘ This connector may be hidden underneath a cooling fan wire.
- Remove the connector with red, yellow, green, white, and black wires.
  - ⓘ This connector is located on the bottom-right of the board.
- Remove the large connector near the fan.
- Gently pull the power jack cable and socket out of its housing. It should come out entirely.

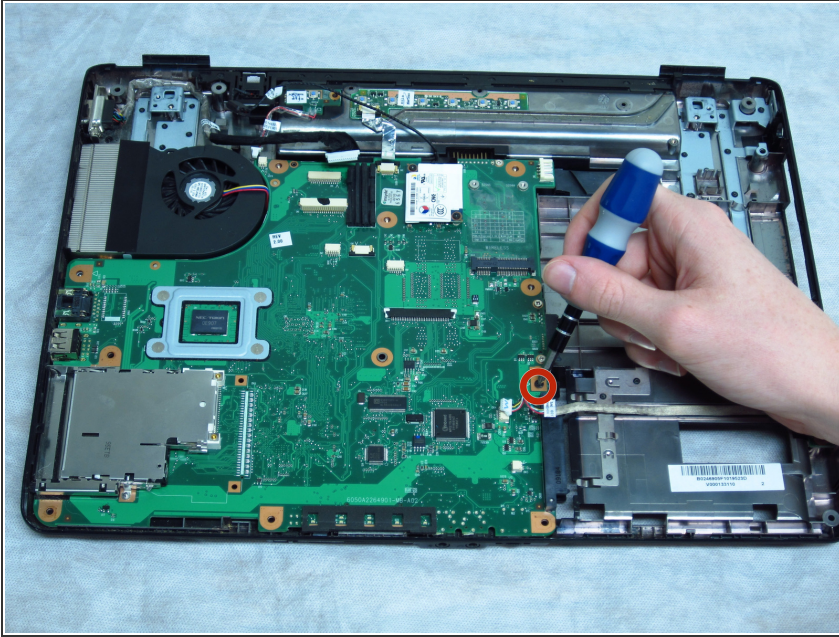
## Step 29



- Gently push the two black tabs until they stop moving.
- Gently pull the silver ribbon cable out of the connectors.

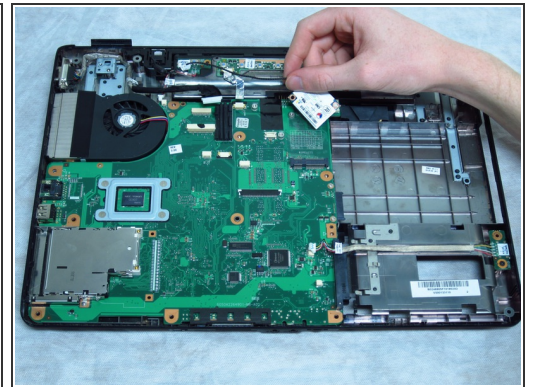
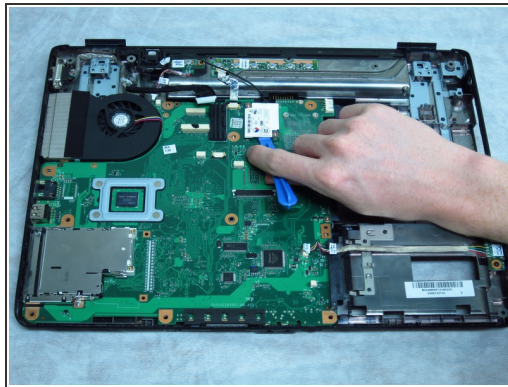
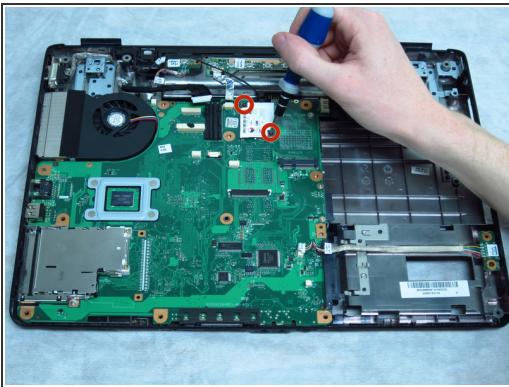


## Step 30



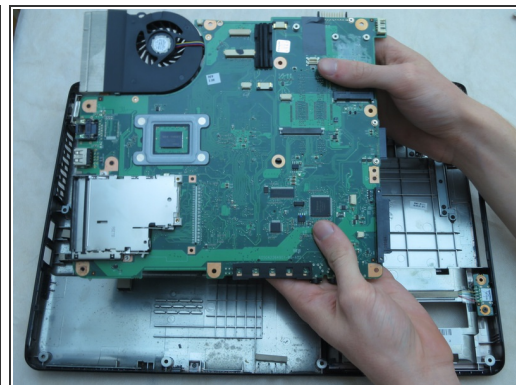
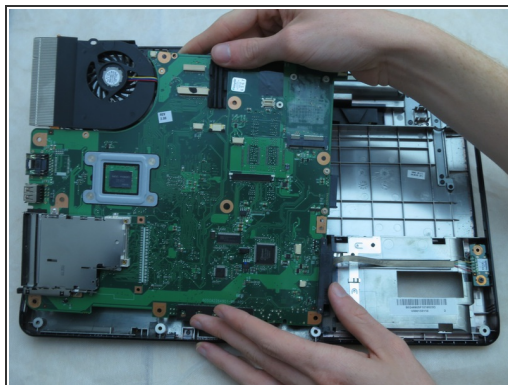
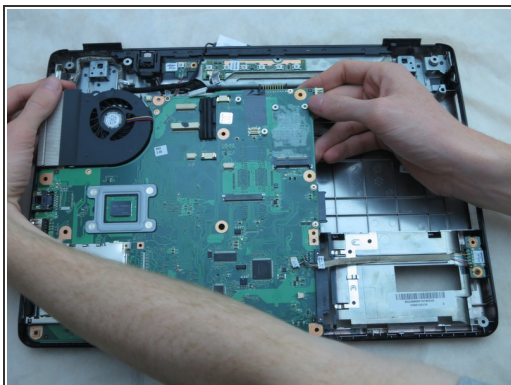
- Use a Phillips #1 screwdriver to remove the 6-mm screw near the hard drive.
- ⓘ This is not a captive screw and, once loosened, will be free to move about the assembly.
- ⚠ Be careful not to allow either fastener into the CPU fan and duct (located in the upper left).

## Step 31



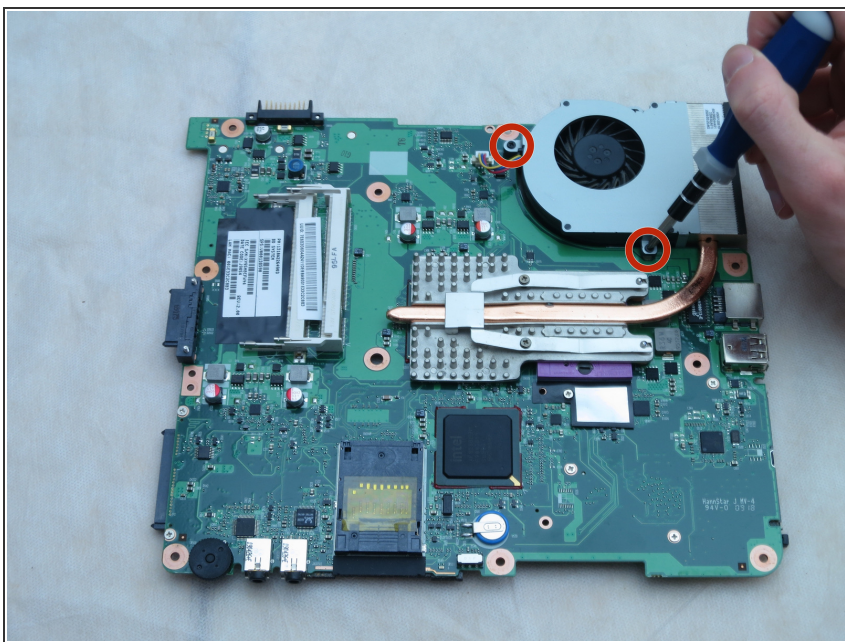
- Use a Phillips #00 screwdriver to remove the two 3-mm screws from the card connected to a black wire.
- ⓘ These are not captive screws and, once loosened, will be free to move about the assembly.
- ⚠ Be careful not to allow either fastener into the CPU fan and duct (located in the upper left).

## Step 32



- Use your hands to gently lift the top right side of the motherboard. Then, pull it upwards to the right and away from you.

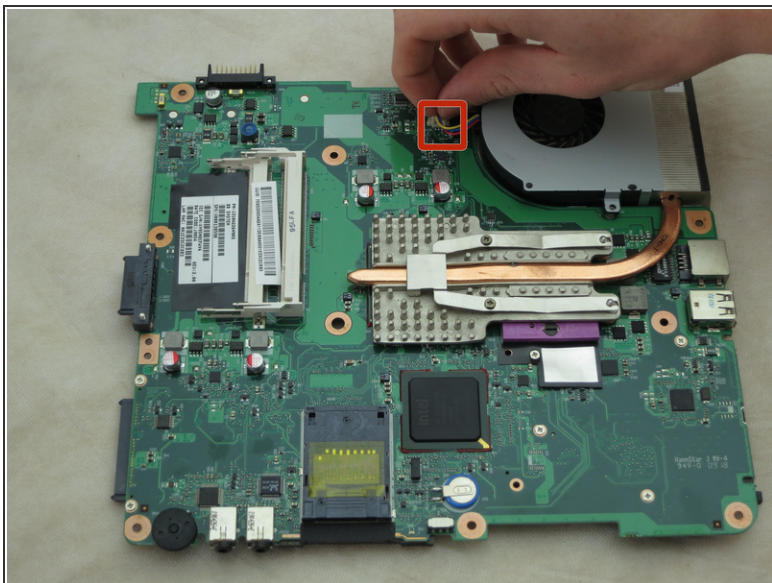
## Step 33 — Cooling Fan



- Flip the motherboard over. Using a Phillips #1 screwdriver, remove the two 3-mm screws from the fan.



## Step 34



- Using your fingers, remove the housing with the red, blue, and yellow wires.

## Step 35



- Using your fingers, remove the fan from the heatsink.

To reassemble your device, follow these instructions in reverse order.

